



```
⊖ if ( a == 1 )  
    L b = 2;
```

Fig. 12

rule representation mapping	representation of an if_statement
<pre> if (boolean_expression) embedded_statement else embedded_statement </pre>	<pre> if (a==1) b=2 ; else c=3 ; </pre>
<pre> if (boolean_expression) embedded_statement else embedded_statement </pre>	<pre> if (a==1) b=2 ; else c=3 ; </pre>

Fig. 14

record	4/19/2003	11:20:35	Robert	Payment Received	Uncleared
record					
record	4/16/2003	6:38:28	Mark	Payment Received	Completed
record	4/14/2003	19:54:34	Igor	Payment Received	

Fig. 2

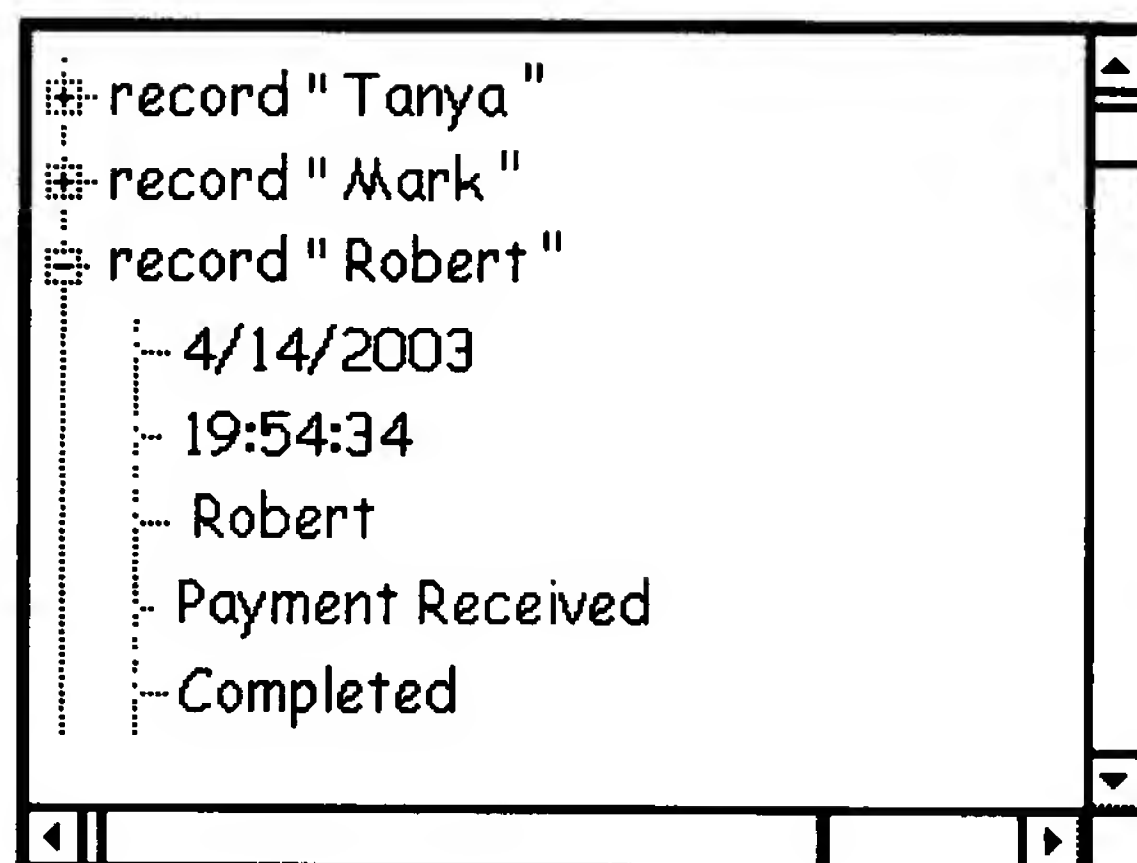


Fig. 3

```

using System;
namespace IVDEV.Trees
{
    /// <summary>
    /// Summary description for MyControl
    /// </summary>
    public class MyControl : System.Windows.Forms.UserControl
    {
        private void MyTabPage_Enter(object sender, System.EventArgs e)
        {
            rb = new RepresentationBuilder();
            rb.code = textBox1.Text;
            rb.path_to_grammar = "C:\\grammars";
            rb.BuildGrammarTree();
            if ( a==1 )
            {
                b= rb.c;
                while ( a==b){ a+= rb.p;}
            }
            //the rest of the code is omitted for clarity...
        }
    }
}

```

Fig. 4

```

using System;
namespace IVDEV.Trees
{
    /// <summary>
    /// Summary description for MyControl
    /// </summary>
    public class MyControl : System.Windows.Forms.UserControl
    {
        private void MyTabPage_Enter(object sender, System.EventArgs e)
        {
            rb = new RepresentationBuilder();
            rb.code = textBox1.Text;
            rb.path_to_grammar = "C:\\grammars";
            rb.BuildGrammarTree();
            if (a==1)
            {
                b= rb.c;
                while ( a==b)
                {
                    a+= rb.p;
                }
            }
            //the rest of the code is omitted for clarity...
        }
    }
}

```

Fig. 5

```
"if" "(" boolean_expression ")"  
  |  
  |— embedded_statement  
  |  
  |— "else"  
    |  
    |— embedded_statement
```

Fig. 8

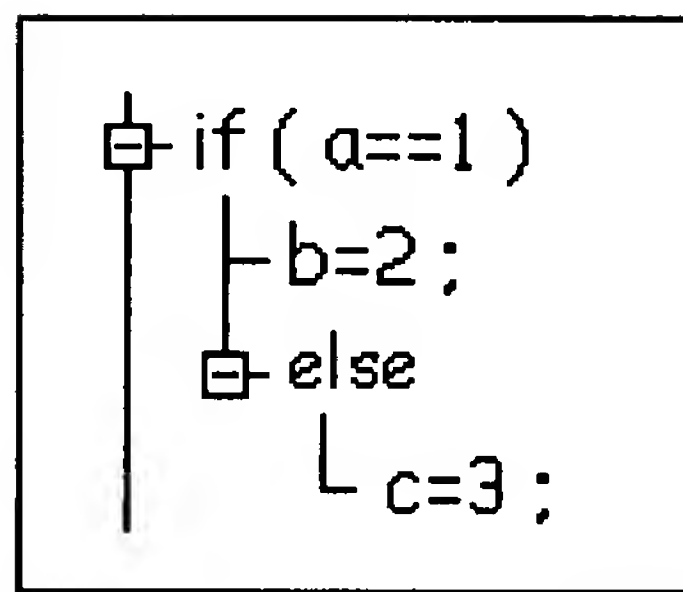


Fig. 9